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| Application Number   | 10 / 657 , 382   |
| Filing Date          | 09 - 08 - 03     |
| First Named Inventor | Robin G. Skinner |
| Art Unit             | 3746             |
| Examiner Name        | Koczo            |

Attorney Docket Number TEC1212/C-504

**U. S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
| MK                 |                       | US- 2,661,172                            | 12-01-1953                     | Needham  |   |
|                    |                       | US- 3,039,725                            | 06-19-1962                     | Kerley, Jr.  |   |
|                    |                       | US- 3,145,960                            | 08-25-1964                     | Langdon  |   |
|                    |                       | US- 3,749,340                            | 07-31-1973                     | Williams et al.                                    |   |
|                    |                       | US- 3,785,167                            | 01-15-1974                     | Sahs   |   |
|                    |                       | US- 5,487,648                            | 01-30-1996                     | Alfano et al.                                      |   |
|                    |                       | US- 5,579,651                            | 12-03-1996                     | Sugiyama et al.                                    |   |
|                    |                       | US- 5,683,237                            | 11-04-1997                     | Hagiwara et al.                                    |   |
|                    |                       | US- 5,752,688                            | 05-19-1998                     | Campbell, et al.                                   |   |
|                    |                       | US- 5,913,892                            | 06-22-1999                     | Kwon   |   |
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**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |
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|                    |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                |  |   |                |
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|                    |                       |   |                                |  |   |                |

Examiner Signature

/Michael Koczo Jr./

Date Considered

10/31/2006

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| <p style="text-align: center;"><b>O INFORMATION DISCLOSURE CITATION</b><br/> <small>(use several sheets if necessary)</small></p> <p>AUG 30 2004<br/>USPTO - 1000<br/>EXAMINER: MK</p>   |                 |            |                 | ATTY DOCKET NO.<br><b>TEC1212-01/C-504</b> | APPLICATION NO.<br><b>10/657,382</b>    |                               |    |
|--|-----------------|------------|-----------------|--|---|-------------------------------|----|
|  |                 |            |                 | APPLICANT(S)<br><b>Robin G. Skinner</b>    | FILING DATE<br><b>September 8, 2003</b> | GROUP ART UNIT<br><b>3746</b> |    |
| <b>U.S. PATENT DOCUMENTS</b>   |                 |            |                 |  |   |                               |    |
| *EXAMINER<br>INITIAL   | DOCUMENT NUMBER | DATE       | NAME            | CLASS                                      | SUBCLASS                                | FILING DATE<br>IF APPROPRIATE |    |
| MK   | Re. 34,297      | 06/29/1993 | Elson           | 417  | 372                                     |                               |    |
| MK   | Re. 25,569      | 05/05/1964 | Coron et al.    | 230  | 117                                     |                               |    |
| MK   | 4,089,613       | 05/16/1978 | Babbitt, Jr.    | 403  | 388                                     |                               |    |
| MK   | 4,244,680       | 01/13/1981 | Ishizuka et al. | 418  | 97                                      |                               |    |
| MK   | 4,389,171       | 06/21/1983 | Eber et al.     | 418  | 15                                      |                               |    |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |                 |            |                 |  |   |                               |    |
| *EXAMINER<br>INITIAL   | DOCUMENT NUMBER | DATE       | NAME            | CLASS                                      | SUBCLASS                                | FILING DATE<br>IF APPROPRIATE |    |
| MK   | 2001/0055536    | 12/27/2001 | Bernardi et al. | 418  | 55.6                                    |                               |    |
| MK   | 2001/0006603    | 07/05/2001 | Hong et al.     | 418  | 55.1                                    |                               |    |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |                 |            |                 |  |   |                               |    |
|  | DOCUMENT NUMBER | DATE       | COUNTRY         | CLASS                                      | SUBCLASS                                | TRANSLATION                   |    |
|  |                 |            |                 |  |   | YES                           | NO |
| MK   | JP402061382A    | 03/01/1990 | Japan           |  |   |                               |    |
| MK   | JP407259764A    | 10/09/1995 | Japan           |  |   |                               |    |
| MK   | JP61087994      | 05/06/1986 | Japan           |  |   |                               |    |
| MK   | JP2001020881A   | 01/23/2001 | Japan           |  |   |                               |    |
| MK   | JP2002021729A   | 01/23/2002 | Japan           |  |   |                               |    |
| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |                 |            |                 |  |   |                               |    |
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| EXAMINER<br><i>/Michael Koczo Jr/</i>  |                 |            |                 | DATE CONSIDERED<br><b>10/31/2006</b>       |   |                               |    |
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| INFORMATION DISCLOSURE CITATION<br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01/C-504 | APPLICATION NO.<br>10/657,382 |               |                            |
|---|--|-----------------|------------|-------------------------------------|-------------------------------|---------------|----------------------------|
|   |  |                 |            | Robin G. Skinner                    |                               |               |                            |
| FILING<br>September 8, 2003   |  |                 |            | GROUP ART<br>3746                   |                               |               |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                 |            |                                     |                               |               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                                | CLASS                         | SUBCLASS      | FILING DATE IF APPROPRIATE |
| MK  |  | 4,416,594       | 11/22/1983 | Ichikawa                            | 417                           | 360           |                            |
| MK  |  | 4,497,615       | 02/05/1985 | Griffith                            | 417                           | 310           |                            |
| MK  |  | 4,518,276       | 05/21/1985 | Mitchell                            | 403                           | 13            |                            |
| MK  |  | 4,552,518       | 11/12/1985 | Utter                               | 418                           | 55            |                            |
| MK  |  | 4,557,677       | 12/10/1985 | Hasegawa                            | 418                           | 63            |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>   |  |                 |            |                                     |                               |               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                                | CLASS                         | SUBCLASS      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |  |                 |            |                                     |                               |               |                            |
|   |  | DOCUMENT NUMBER | DATE       | COUNTRY                             | CLASS                         | SUBCLASS      | TRANSLATION                |
|   |  | JP410148191A    | 06/02/1998 | Japan                               | <del>  </del>                 | <del>  </del> | YES      NO                |
| MK  |  | JP2002098056A   | 04/05/2002 | Japan                               | <del>  </del>                 | <del>  </del> |                            |
| MK  |  | 2 755 477 A1    | 11/05/1997 | France                              | <del>  </del>                 | <del>  </del> |                            |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>  |  |                 |            |                                     |                               |               |                            |
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| EXAMINER<br><i>/Michael Koczo Jr/</i>   |  |                 |            | DATE CONSIDERED<br>10/31/2006       |                               |               |                            |
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| INFORMATION DISCLOSURE CITATION<br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01/C-504 | APPLICATION NO.<br>10/657,382 |          |                            |
|---|--|-----------------|------------|-------------------------------------|-------------------------------|----------|----------------------------|
|   |  |                 |            | Robin G. Skinner                    |                               |          |                            |
|   |  |                 |            | FILING<br>September 8, 2003         | GROUP ART<br>3746             |          |                            |
| U.S. PATENT DOCUMENTS   |  |                 |            |                                     |                               |          |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                                | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE |
| MK  |  | 4,685,188       | 08/11/1987 | Goy                                 | 29                            | 446      |                            |
| MK  |  | 4,767,293       | 08/30/1988 | Caillat et al.                      | 418                           | 55       |                            |
| MK  |  | 4,792,288       | 12/20/1988 | Gromoll et al.                      | 417                           | 278      |                            |
| MK  |  | 4,818,198       | 04/04/1989 | Tamura et al.                       | 418                           | 55       |                            |
| MK  |  | 4,877,382       | 10/31/1989 | Caillat et al.                      | 418                           | 55       |                            |
| U.S. PATENT APPLICATION PUBLICATIONS  |  |                 |            |                                     |                               |          |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                                | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE |
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| FOREIGN PATENT DOCUMENTS  |  |                 |            |                                     |                               |          |                            |
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| OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |                                     |                               |          |                            |
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|---|--|-----------------|------------|-------------------------------------|-------------------------------|------------|----------------------------|
|   |  |                 |            | Robin G. Skinner                    |                               |            |                            |
|   |  |                 |            | FILING<br>September 8, 2003         | GROUP ART<br>3746             |            |                            |
| U.S. PATENT DOCUMENTS   |  |                 |            |                                     |                               |            |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                                | CLASS                         | SUBCLASS   | FILING DATE IF APPROPRIATE |
| MK  |  | 4,992,033       | 02/21/1991 | Caillat et al.                      | 418                           | 55.3       |                            |
| MK  |  | 5,012,896       | 05/07/1991 | Da Costa                            | 184                           | 6.16       |                            |
| MK  |  | 5,055,010       | 10/08/1991 | Logan                               | 417                           | 410        |                            |
| MK  |  | 5,062,779       | 11/05/1991 | Da Costa                            | 418                           | 270        |                            |
| MK  |  | 5,110,268       | 05/05/1992 | Sakurai et al.                      | 417                           | 410        |                            |
| U.S. PATENT APPLICATION PUBLICATIONS  |  |                 |            |                                     |                               |            |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                                | CLASS                         | SUBCLASS   | FILING DATE IF APPROPRIATE |
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| EXAMINER<br><i>/Michael Koczo Jr/</i>   |  |                 |            | DATE CONSIDERED                     |                               | 10/31/2006 |                            |
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|--|--|-----------------|------------|--------------------------------------|-------|-------------------------------|----------------------------|
|  |  |                 |            | Robin G. Skinner                     |       |                               |                            |
|  |  |                 |            | FILING<br>September 8, 2003          |       | GROUP ART<br>3746             |                            |
| <b>U.S. PATENT DOCUMENTS</b>   |  |                 |            |                                      |       |                               |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                                 | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK   |  | 5,114,322       | 05/19/1992 | Caillat et al.                       | 418   | 55.6                          |                            |
| MK   |  | 5,137,437       | 08/11/1992 | Machida et al.                       | 418   | 55.1                          |                            |
| MK   |  | 5,176,506       | 01/05/1993 | Siebel                               | 417   | 368                           |                            |
| MK   |  | 5,211,031       | 05/18/1993 | Murayama et al.                      | 62    | 498                           |                            |
| MK   |  | 5,219,281       | 06/15/1993 | Caillat et al.                       | 418   | 55.6                          |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |  |                 |            |                                      |       |                               |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                                 | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |  |                 |            |                                      |       |                               |                            |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |                                      |       |                               |                            |
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| <b>EXAMINER</b><br>/ Michael Koczo Jr /  |  |                 |            | <b>DATE CONSIDERED</b><br>10/31/2006 |       |                               |                            |
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|--|--|-----------------|------------|---|--------------------------------------|----------|----------------------------|
|  |  |                 |            | APPLICANT(S)<br><b>Robin G. Skinner</b> |                                      |          |                            |
|  |  |                 |            | FILING DATE<br><b>September 8, 2003</b> | GROUP ART UNIT<br><b>3746</b>        |          |                            |
|  |  |                 |            | <b>U.S. PATENT DOCUMENTS</b>            |                                      |          |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                                    | CLASS                                | SUBCLASS | FILING DATE IF APPROPRIATE |
| MK   |  | 5,222,885       | 06/29/1993 | Cooksey                                 | 418                                  | 96       |                            |
| MK   |  | 5,224,845       | 07/06/1993 | Mangyo et al.                           | 417                                  | 423.13   |                            |
| MK   |  | 5,240,391       | 08/31/1993 | Ramshankar et al.                       | 417                                  | 410 R    |                            |
| MK   |  | 5,247,738       | 09/28/1993 | Yoshii                                  | 29                                   | 888.022  |                            |
| MK   |  | 5,312,234       | 05/17/1994 | Yoshii                                  | 418                                  | 55.1     |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |  |                 |            |   |                                      |          |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                                    | CLASS                                | SUBCLASS | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |  |                 |            |   |                                      |          |                            |
|  |  | DOCUMENT NUMBER | DATE       | COUNTRY                                 | CLASS                                | SUBCLASS | TRANSLATION                |
|  |  |                 |            |   |                                      |          | YES                        |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |   |                                      |          |                            |
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| <b>EXAMINER</b><br>/ Michael Koczo Jr /  |  |                 |            | <b>DATE CONSIDERED</b><br>10/31/2006    |                                      |          |                            |
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|   |  |                 |            | Robin G. Skinner              |       |                               |                            |
|   |  |                 |            | FILING<br>September 8, 2003   |       | GROUP ART<br>3746             |                            |
| U.S. PATENT DOCUMENTS   |  |                 |            |                               |       |                               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK  |  | 5,345,785       | 09/13/1994 | Sekigami et al.               | 62    | 468                           |                            |
| MK  |  | 5,345,970       | 09/13/1994 | Leyderman et al.              | 137   | 856                           |                            |
| MK  |  | 5,346,375       | 09/13/1994 | Aikyama et al.                | 418   | 15                            |                            |
| MK  |  | 5,348,455       | 09/20/1994 | Herrick et al.                | 418   | 63                            |                            |
| MK  |  | 5,370,156       | 12/06/1994 | Peracchio et al.              | 137   | 856                           |                            |
| U.S. PATENT APPLICATION PUBLICATIONS  |  |                 |            |                               |       |                               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| FOREIGN PATENT DOCUMENTS  |  |                 |            |                               |       |                               |                            |
|   |  | DOCUMENT NUMBER | DATE       | COUNTRY                       | CLASS | SUBCLASS                      | TRANSLATION                |
|   |  |                 |            |                               |       |                               | YES                        |
|   |  |                 |            |                               |       |                               | NO                         |
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| OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |                               |       |                               |                            |
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| EXAMINER /Michael Koczo Jr/   |  |                 |            | DATE CONSIDERED               |       | 10/31/2006                    |                            |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |  |                 |            |                               |       |                               |                            |

| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01                   |       | APPLICATION NO.<br>10/657,382 |                            |
|--|--|-----------------|------------|---|-------|-------------------------------|----------------------------|
|  |  |                 |            | Robin G. Skinner<br>FILING<br>September 8, 2003 |       | GROUP ART<br>3746             |                            |
| <b>U.S. PATENT DOCUMENTS</b>   |  |                 |            |   |       |                               |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME  | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK   |  | 5,391,066       | 02/21/1995 | Sawai et al.                                    | 418   | 55.6                          |                            |
| MK   |  | 5,427,511       | 06/27/1995 | Caillat et al.                                  | 418   | 55.1                          |                            |
| MK   |  | 5,474,433       | 12/12/1995 | Chang et al.                                    | 418   | 55.4                          |                            |
| MK   |  | 5,522,715       | 06/04/1996 | Watanabe et al.                                 | 418   | 55.1                          |                            |
| MK   |  | 5,531,577       | 07/02/1996 | Hayase et al.                                   | 418   | 55.1                          |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |  |                 |            |   |       |                               |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME  | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |  |                 |            |   |       |                               |                            |
|  |  | DOCUMENT NUMBER | DATE       | COUNTRY   | CLASS | SUBCLASS                      | TRANSLATION                |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |   |       |                               |                            |
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| <b>EXAMINER</b><br><i>/Michael Koczo Jr/</i>   |  |                 |            | <b>DATE CONSIDERED</b><br><i>10/31/2006</i>     |       |                               |                            |
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| INFORMATION DISCLOSURE CITATION<br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01 | APPLICATION NO.<br>10/657,382 |          |                            |
|---|--|-----------------|------------|-------------------------------|-------------------------------|----------|----------------------------|
|   |  |                 |            | Robin G. Skinner              |                               |          |                            |
| FILING<br>September 8, 2003   |  |                 |            | GROUP ART<br>3746             |                               |          |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                 |            |                               |                               |          |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE |
| MK  |  | 5,533,875       | 07/09/1996 | Crum et al.                   | 417                           | 368      |                            |
| MK  |  | 5,580,233       | 12/03/1996 | Wakana et al.                 | 418                           | 94       |                            |
| MK  |  | 5,597,293       | 01/28/1997 | Bushnell et al.               | 417                           | 410.3    |                            |
| MK  |  | 5,597,296       | 01/28/1997 | Akazawa et al.                | 418                           | 55.1     |                            |
| MK  |  | 5,634,781       | 06/03/1997 | Yoshida et al.                | 418                           | 55.1     |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>   |  |                 |            |                               |                               |          |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |  |                 |            |                               |                               |          |                            |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>  |  |                 |            |                               |                               |          |                            |
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| EXAMINER<br><i>/Michael Koczo Jr/</i>   |  |                 |            | DATE CONSIDERED<br>10/31/2006 |                               |          |                            |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |  |                 |            |                               |                               |          |                            |

| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01     |       | APPLICATION NO.<br>10/657,382 |                            |
|--|--|-----------------|------------|-----------------------------------|-------|-------------------------------|----------------------------|
|  |  |                 |            | Robin G. Skinner                  |       | FILING<br>September 8, 2003   |                            |
| <b>U.S. PATENT DOCUMENTS</b>   |  |                 |            |                                   |       |                               |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                              | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK   |  | 5,645,408       | 07/08/1997 | Fujio et al.                      | 418   | 55.4                          |                            |
| MK   |  | 5,660,539       | 08/26/1997 | Matsunaga et al.                  | 418   | 55.6                          |                            |
| MK   |  | 5,695,326       | 12/09/1997 | Oka et al.                        | 418   | 55.1                          |                            |
| MK   |  | 5,716,202       | 02/10/1998 | Koyama et al.                     | 418   | 55.6                          |                            |
| MK   |  | 5,720,601       | 02/24/1998 | Tark et al.                       | 417   | 569                           |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |  |                 |            |                                   |       |                               |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                              | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |  |                 |            |                                   |       |                               |                            |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |                                   |       |                               |                            |
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| <b>EXAMINER</b><br>/Michael Koczo Jr/  |  |                 |            | <b>DATE CONSIDERED</b> 10/31/2006 |       |                               |                            |
| <b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |  |                 |            |                                   |       |                               |                            |

| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |                 |                 |            | ATTY DOCKET NO.<br><b>TEC1212-01</b>    |          | APPLICATION NO.<br><b>10/657,382</b> |                               |
|--|-----------------|-----------------|------------|---|----------|--------------------------------------|-------------------------------|
|  |                 |                 |            | APPLICANT(S)<br><b>Robin G. Skinner</b> |          |                                      |                               |
|  |                 |                 |            | FILING DATE<br><b>September 8, 2003</b> |          | GROUP ART UNIT<br><b>3746</b>        |                               |
|  |                 |                 |            | <b>U.S. PATENT DOCUMENTS</b>            |          |                                      |                               |
| 'EXAMINER<br>INITIAL   |                 | DOCUMENT NUMBER | DATE       | NAME                                    | CLASS    | SUBCLASS                             | FILING DATE<br>IF APPROPRIATE |
| MK   |                 | 5,745,992       | 05/05/1998 | Caillat et al.                          | 29       | 888.022                              |                               |
| MK   |                 | 5,769,126       | 06/23/1998 | Cho                                     | 137      | 856                                  |                               |
| MK   |                 | 5,772,411       | 06/30/1998 | Crum et al.                             | 417      | 368                                  |                               |
| MK   |                 | 5,772,416       | 06/30/1998 | Caillat et al.                          | 418      | 55.6                                 |                               |
| MK   |                 | 5,775,894       | 07/07/1998 | Kosco, Jr.                              | 418      | 63                                   |                               |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |                 |                 |            |   |          |                                      |                               |
| 'EXAMINER<br>INITIAL   |                 | DOCUMENT NUMBER | DATE       | NAME                                    | CLASS    | SUBCLASS                             | FILING DATE<br>IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |                 |                 |            |   |          |                                      |                               |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |                 |                 |            |   |          |                                      |                               |
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| <b>EXAMINER</b><br>/Michael Koczo Jr/  |                 |                 |            | <b>DATE CONSIDERED</b><br>10/31/2006    |          |                                      |                               |
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| INFORMATION DISCLOSURE CITATION<br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01 |       | APPLICATION NO.<br>10/657,382 |                            |
|---|--|-----------------|------------|-------------------------------|-------|-------------------------------|----------------------------|
|   |  |                 |            | Robin G. Skinner              |       | FILING<br>September 8, 2003   |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                 |            |                               |       |                               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK  |  | 5,810,572       | 09/22/1998 | Yamamoto et al.               | 418   | 55.6                          |                            |
| MK  |  | 5,829,959       | 11/03/1998 | Tsubono et al.                | 418   | 55.5                          |                            |
| MK  |  | 5,863,190       | 01/26/1999 | Yamamoto et al.               | 418   | 55.1                          |                            |
| MK  |  | 5,931,649       | 08/03/1999 | Caillat et al.                | 418   | 55.1                          |                            |
| MK  |  | 5,931,650       | 08/03/1999 | Yasu et al.                   | 418   | 55.3                          |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>   |  |                 |            |                               |       |                               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |  |                 |            |                               |       |                               |                            |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>  |  |                 |            |                               |       |                               |                            |
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| EXAMINER<br>/Michael Koczo Jr/  |  |                 |            | DATE CONSIDERED<br>10/31/2006 |       |                               |                            |
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| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01  | APPLICATION NO.<br>10/657,382 |          |                            |
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|  |  |                 |            | <b>Robin G. Skinner</b><br><b>FILING</b> September 8, 2003 <b>GROUP ART</b> 3746 |                               |          |                            |
| <b>U.S. PATENT DOCUMENTS</b>   |  |                 |            |  |                               |          |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME   | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE |
| MK   |  | 5,947,709       | 09/07/1999 | Koyama et al.  | 418                           | 55.6     |                            |
| MK   |  | 5,964,581       | 10/12/1999 | Iizuka et al.  | 417                           | 410.3    |                            |
| MK   |  | 6,000,917       | 12/14/1999 | Smerud et al.  | 417                           | 368      |                            |
| MK   |  | 6,027,321       | 02/22/2000 | Shim et al.  | 418                           | 1        |                            |
| MK   |  | 6,039,551       | 03/21/2000 | Takeuchi et al.  | 418                           | 88       |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |  |                 |            |  |                               |          |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME   | CLASS                         | SUBCLASS | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |  |                 |            |  |                               |          |                            |
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|  |  |                 |            |  |                               |          | YES                        |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |  |                               |          |                            |
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| <b>EXAMINER</b> /Michael Koczo Jr/   |  |                 |            | <b>DATE CONSIDERED</b> 10/31/2006  |                               |          |                            |
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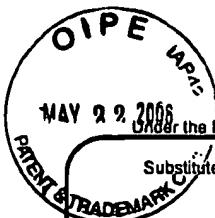
| INFORMATION DISCLOSURE CITATION<br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01 |       | APPLICATION NO.<br>10/657,382 |                               |
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|   |  |                 |            | Robin G. Skinner              |       |                               |                               |
| FILING<br>September 8, 2003   |  |                 |            | GROUP ART<br>3746             |       |                               |                               |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                 |            |                               |       |                               |                               |
| EXAMINER<br>INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS | SUBCLASS                      | FILING DATE<br>IF APPROPRIATE |
| MK  |  | 6,050,794       | 04/18/2000 | Noboru et al.                 | 418   | 55.6                          |                               |
| MK  |  | 6,056,523       | 05/02/2000 | Won et al.                    | 418   | 15                            |                               |
| MK  |  | 6,106,254       | 08/22/2000 | Hirooka et al.                | 418   | 55.6                          |                               |
| MK  |  | 6,132,191       | 10/17/2000 | Ilugenroth et al.             | 418   | 55.1                          |                               |
| MK  |  | 6,139,291       | 10/31/2000 | Perevozchikov                 | 418   | 55.1                          |                               |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>   |  |                 |            |                               |       |                               |                               |
| EXAMINER<br>INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS | SUBCLASS                      | FILING DATE<br>IF APPROPRIATE |
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| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |                           |                 |            | ATTY DOCKET NO.<br>TEC1212-01                                 |            | APPLICATION NO.<br>10/657,382 |                            |
|--|---------------------------|-----------------|------------|---|------------|-------------------------------|----------------------------|
|  |                           |                 |            | <b>Robin G. Skinner</b><br><b>FILING</b><br>September 8, 2003 |            |                               |                            |
| <b>U.S. PATENT DOCUMENTS</b>   |                           |                 |            |   |            |                               |                            |
| *EXAMINER INITIAL  |                           | DOCUMENT NUMBER | DATE       | NAME  | CLASS      | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK   |                           | 6,156,106       | 12/05/2000 | Kamata  | 96         | 189                           |                            |
| MK   |                           | 6,162,035       | 12/19/2000 | Hayano et al.   | 418        | 220                           |                            |
| MK   |                           | 6,167,719       | 01/02/2001 | Yakumaru et al.   | 62         | 468                           |                            |
| MK   |                           | 6,171,076       | 01/09/2001 | Gannaway  | 417        | 350                           |                            |
| MK   |                           | 6,179,589       | 01/30/2001 | Bass et al.   | 418        | 55.1                          |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |                           |                 |            |   |            |                               |                            |
| *EXAMINER INITIAL  |                           | DOCUMENT NUMBER | DATE       | NAME  | CLASS      | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |                           |                 |            |   |            |                               |                            |
|  |                           | DOCUMENT NUMBER | DATE       | COUNTRY   | CLASS      | SUBCLASS                      | TRANSLATION                |
|  |                           |                 |            |   |            |                               | YES                        |
|  |                           |                 |            |   |            |                               | NO                         |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |                           |                 |            |   |            |                               |                            |
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| <b>EXAMINER</b>  | <i>/Michael Koczo Jr/</i> |                 |            | <b>DATE CONSIDERED</b>  | 10/31/2006 |                               |                            |
| <b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                           |                 |            |   |            |                               |                            |

| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br><b>TEC1212-01</b>    |       | APPLICATION NO.<br><b>10/657,382</b> |                            |
|--|--|-----------------|------------|---|-------|--------------------------------------|----------------------------|
|  |  |                 |            | APPLICANT(S)<br><b>Robin G. Skinner</b> |       |                                      |                            |
|  |  |                 |            | FILING DATE<br><b>September 8, 2003</b> |       | GROUP ART UNIT<br><b>3746</b>        |                            |
|  |  |                 |            | <b>U.S. PATENT DOCUMENTS</b>            |       |                                      |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                                    | CLASS | SUBCLASS                             | FILING DATE IF APPROPRIATE |
| MK   |  | 6,186,753       | 02/13/2001 | Hugenroth et al.                        | 418   | 55.1                                 |                            |
| MK   |  | 6,224,356       | 05/01/2001 | Dewar et al.                            | 418   | 55.1                                 |                            |
| MK   |  | 6,227,830       | 05/08/2001 | Fields et al.                           | 418   | 55.1                                 |                            |
| MK   |  | 6,247,910       | 06/19/2001 | Yokoyama                                | 418   | 55.1                                 |                            |
| MK   |  | 6,261,073       | 07/17/2001 | Kumazawa                                | 418   | 63                                   |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |  |                 |            |   |       |                                      |                            |
| *EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME                                    | CLASS | SUBCLASS                             | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |  |                 |            |   |       |                                      |                            |
|  |  | DOCUMENT NUMBER | DATE       | COUNTRY                                 | CLASS | SUBCLASS                             | TRANSLATION                |
|  |  |                 |            |   |       |                                      | YES                        |
|  |  |                 |            |   |       |                                      | NO                         |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |  |                 |            |   |       |                                      |                            |
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| <b>EXAMINER</b><br>/ Michael Koczo Jr /  |  |                 |            | <b>DATE CONSIDERED</b><br>10/31/2006    |       |                                      |                            |
| <b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |  |                 |            |   |       |                                      |                            |

| INFORMATION DISCLOSURE CITATION<br><i>(Use several sheets if necessary)</i>   |  |                 |            | ATTY DOCKET NO.<br>TEC1212-01 |                   | APPLICATION NO.<br>10/657,382 |                            |
|---|--|-----------------|------------|-------------------------------|-------------------|-------------------------------|----------------------------|
|   |  |                 |            | Robin G. Skinner              |                   |                               |                            |
|   |  |                 |            | FILING<br>September 8, 2003   | GROUP ART<br>3746 |                               |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                 |            |                               |                   |                               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS             | SUBCLASS                      | FILING DATE IF APPROPRIATE |
| MK  |  | 6,280,154       | 08/28/2001 | Ciendenin et al.              | 417               | 410.5                         |                            |
| MK  |  | 6,299,423       | 10/09/2001 | Perevozchikov                 | 418               | 55.1                          |                            |
| MK  |  | 6,305,912       | 10/23/2001 | Svendsen et al.               | 417               | 312                           |                            |
| MK  |  | 6,402,485       | 06/11/2002 | Hong et al.                   | 417               | 366                           |                            |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>   |  |                 |            |                               |                   |                               |                            |
| *EXAMINER INITIAL   |  | DOCUMENT NUMBER | DATE       | NAME                          | CLASS             | SUBCLASS                      | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |  |                 |            |                               |                   |                               |                            |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>  |  |                 |            |                               |                   |                               |                            |
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| EXAMINER /Michael Koczo Jr/   |  |                 |            | DATE CONSIDERED 10/31/2006    |                   |                               |                            |
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| <p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b><br/> <small>(Use several sheets if necessary)</small></p> <p style="text-align: center;">SEP 12 2005</p>   |     |   |            | Docket Number (Optional)<br><b>TEC1212-01/C-504</b>                                       |       | Application Number<br><b>10/657,382</b> |                            |
|--|-----|---|------------|---|-------|---|----------------------------|
|  |     |   |            | Applicant(s)<br><b>Robin G. Skinner</b>   |       |   |                            |
|  |     |   |            | Filing Date<br><b>September 8, 2003</b>   |       | Group Art Unit<br><b>3746</b>           |                            |
|  |     |   |            | <b>U.S. PATENT DOCUMENTS</b>  |       |   |                            |
| *EXAMINER INITIAL  | REF | DOCUMENT NUMBER   | DATE       | NAME  | CLASS | SUBCLASS                                | FILING DATE IF APPROPRIATE |
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| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>  |     |   |            |   |       |   |                            |
| *EXAMINER INITIAL  | REF | DOCUMENT NUMBER   | DATE       | NAME  | CLASS | SUBCLASS                                | FILING DATE IF APPROPRIATE |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |     |   |            |   |       |   |                            |
|  | REF | DOCUMENT NUMBER   | DATE       | COUNTRY   | CLASS | SUBCLASS                                | Translation                |
|  |     |   |            |   |       |   | YES      NO                |
| MK   |     | JP 2001271752A  | 10/05/2001 | Japan  | X     | X                                       | ✓                          |
| MK   |     | JP05288171A   | 11/02/1993 | Japan  | X     | X                                       | ✓                          |
|  |     |   |            |   |       |   |                            |
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|  |     |   |            |   |       |   |                            |
| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |     |   |            |   |       |   |                            |
|  |     |  = Japanese document together with English language abstract |            |   |       |   |                            |
|  |     |   |            |   |       |   |                            |
| EXAMINER<br><i>/Michael Koczo Jr/</i>  |     |   |            | DATE CONSIDERED<br><b>10/31/2006</b>  |       |   |                            |
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Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/01/2009. GPO 2007-090

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

1

Attorney Docket Number TEC1212-01/C-504

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/657,382        |
| Filing Date            | September 8, 2003 |
| First Named Inventor   | Robin G. Skinner  |
| Art Unit               | 3746              |
| Examiner Name          | Koczo             |
| Attorney Docket Number | TEC1212-01/C-504  |

U. S. PATENT DOCUMENTS

## **FOREIGN PATENT DOCUMENTS**

| FOREIGN PATENT DOCUMENTS |                       |   |                                |  |   |      |
|--------------------------|-----------------------|---|--------------------------------|--|---|------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | Type |
|                          |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If known) |                                |  |   |      |
| MK                       | JP                    | 2000-205152   | 07-25-2000                     | Norihiro, et al.                                   |   |      |
| MK                       | JP                    | 10-061567   | 03-03-1998                     | Hitoshi et al.                                     |   |      |
| MK                       | JP                    | 09-032752   | 02-04-1997                     | Yulchi   |   |      |
|                          |                       |   |                                |  |   |      |
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| Examiner<br>Signature | /Michael Koczo Jr/ | Date<br>Considered | 10/31/2006 |
|-----------------------|--------------------|--------------------|------------|

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